

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P454139

Luminaire Tested: **GALN-SA5B-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24588 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

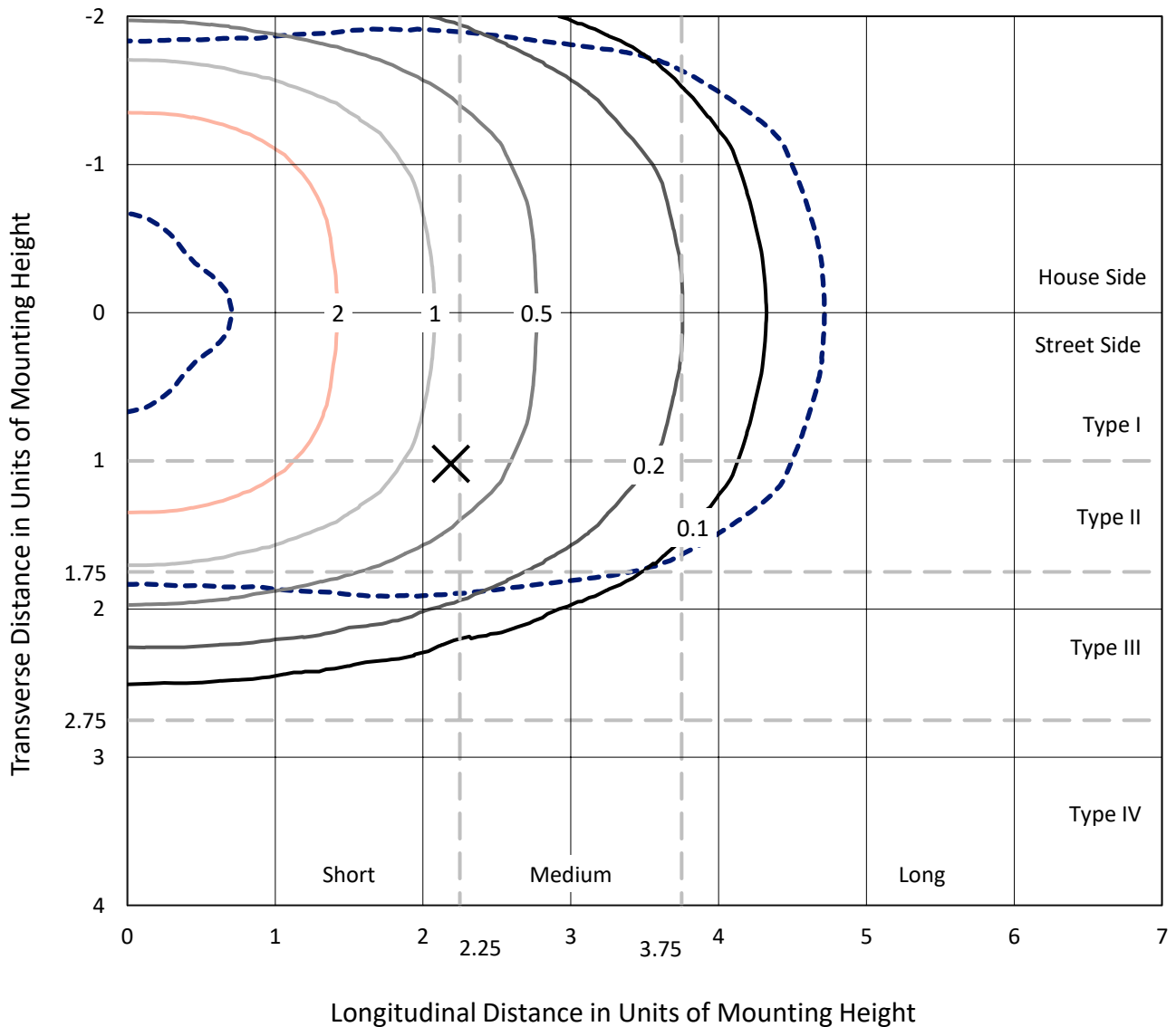
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

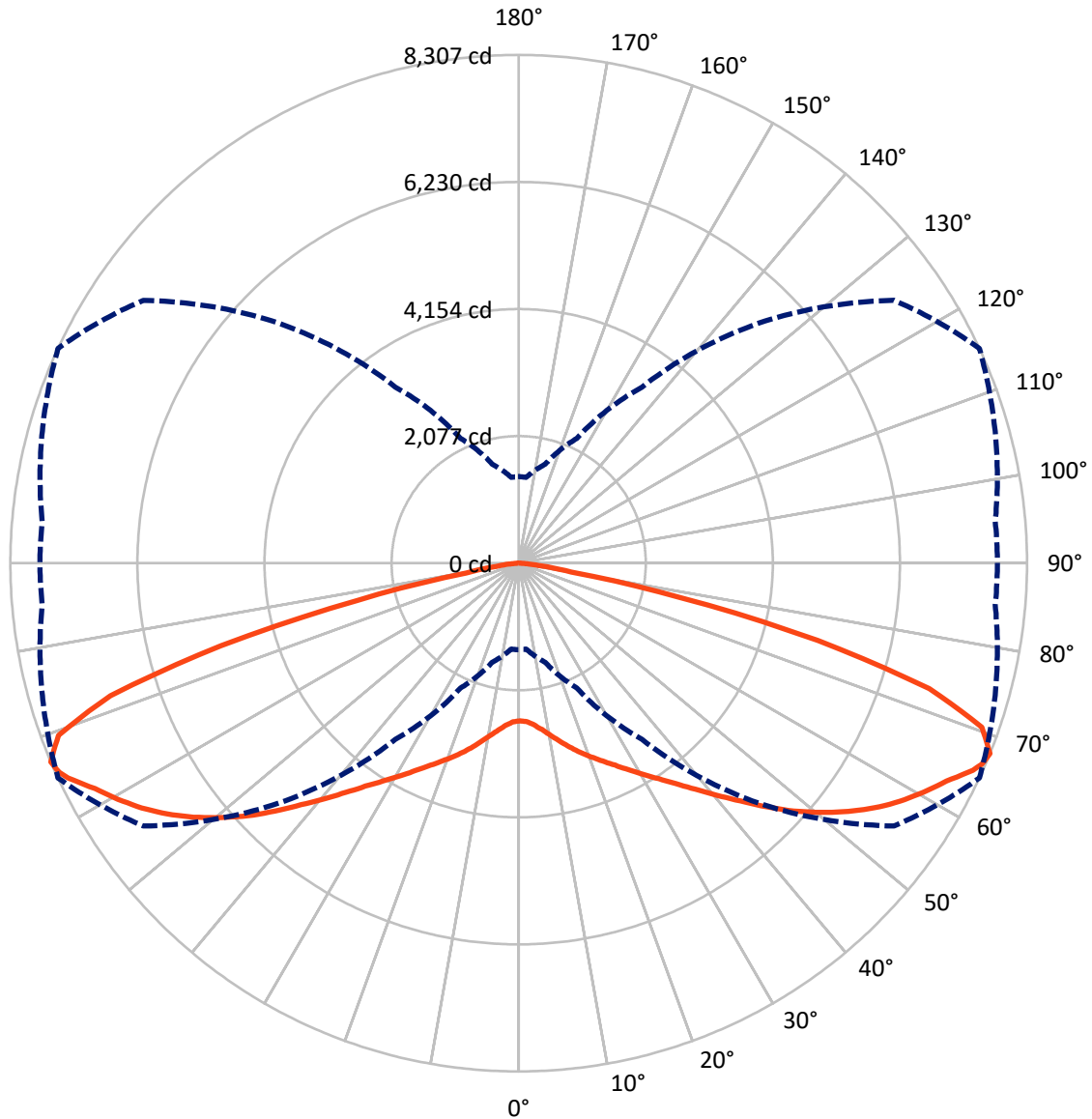
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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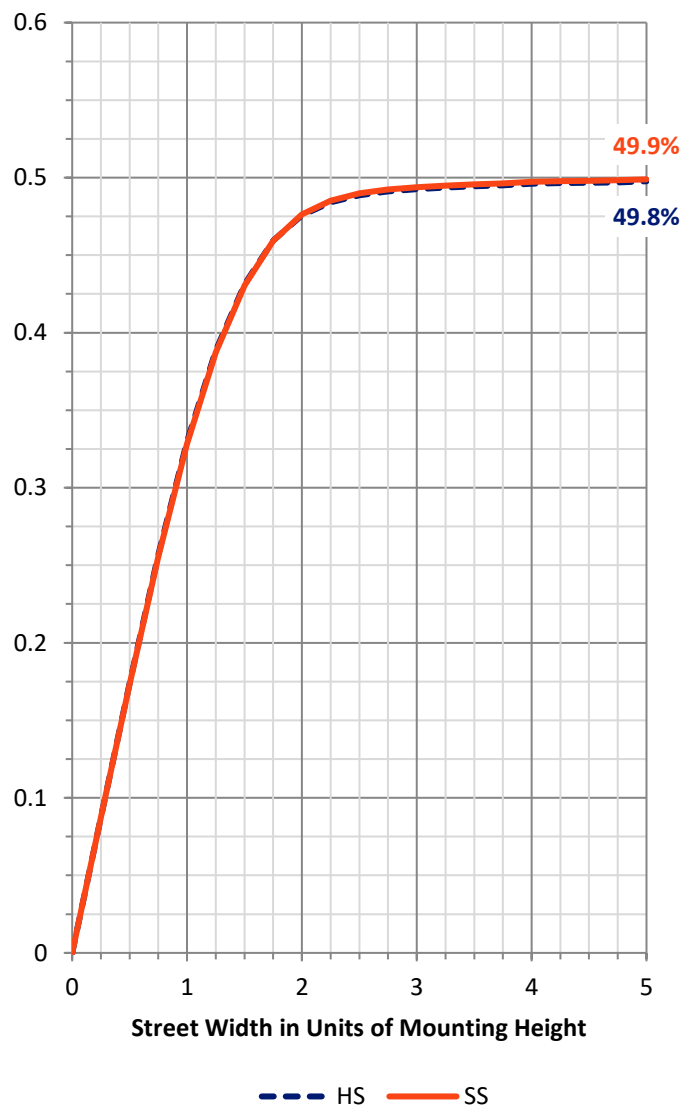
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12294.0	0.0	12294.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12294.0	0.0	12294.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24588.0	0.0	24588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	1.0
10°-20°	850.1	3.5
20°-30°	1662.9	6.8
30°-40°	2828.4	11.5
40°-50°	4476.5	18.2
50°-60°	5935.7	24.1
60°-70°	5599.2	22.8
70°-80°	2768.0	11.3
80°-90°	213.3	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24588.0	100.0
0°-180°	24588.0	100.0

Coefficient of Utilization



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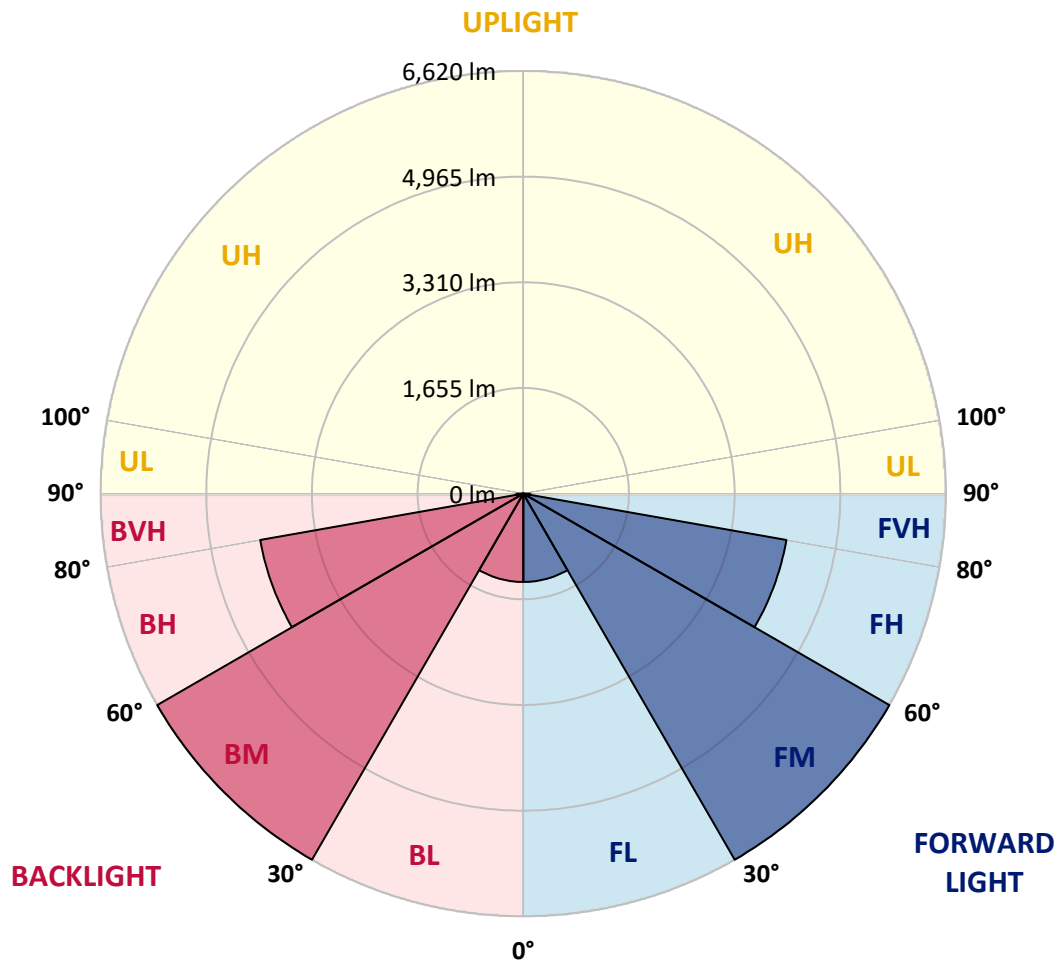
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1383.5	5.6			
FM	(30°-60°)	6620.3	26.9			
FH	(60°-80°)	4183.6	17.0			G2/5000
FVH	(80°-90°)	106.7	0.4			G2/225
BL	(0°-30°)	1383.5	5.6	B3/2500		
BM	(30°-60°)	6620.3	26.9	B4/8500		
BH	(60°-80°)	4183.6	17.0	B4/5000		G4/5000
BVH	(80°-90°)	106.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2575.4	2575.4	2575.4	2575.4	2575.4	2575.4	2575.4	2575.4	2575.4	2575.4	2575.4
2.5°	2562.2	2564.8	2567.5	2571.4	2576.7	2584.6	2589.9	2593.8	2604.4	2605.7	2604.4
5°	2553.0	2555.6	2562.2	2574.1	2591.2	2614.9	2633.3	2655.7	2672.9	2684.7	2682.1
7.5°	2551.7	2556.9	2567.5	2592.5	2625.4	2666.3	2708.4	2746.6	2779.6	2805.9	2802.0
10°	2572.7	2579.3	2596.5	2633.3	2684.7	2744.0	2803.3	2859.9	2907.3	2941.6	2953.4
12.5°	2608.3	2613.6	2645.2	2700.5	2774.3	2848.1	2915.2	2985.1	3050.9	3108.9	3108.9
15°	2670.2	2679.4	2719.0	2799.3	2890.2	2975.8	3044.3	3118.1	3189.3	3255.1	3274.9
17.5°	2755.9	2769.0	2828.3	2931.1	3047.0	3126.0	3190.6	3251.2	3313.1	3376.3	3385.5
20°	2873.1	2886.3	2965.3	3089.1	3226.1	3321.0	3364.5	3378.9	3409.2	3469.8	3477.7
22.5°	3032.5	3045.7	3133.9	3273.6	3426.4	3529.1	3547.6	3513.3	3505.4	3552.8	3558.1
25°	3213.0	3224.8	3326.3	3476.4	3634.5	3746.5	3741.2	3656.9	3609.5	3638.5	3646.4
27.5°	3415.8	3433.0	3535.7	3691.2	3862.4	3961.2	3945.4	3822.9	3721.5	3716.2	3718.8
30°	3675.3	3693.8	3791.3	3940.1	4108.7	4199.6	4166.7	4002.0	3845.3	3792.6	3792.6
32.5°	3949.3	3995.5	4094.3	4249.7	4381.4	4447.3	4397.2	4199.6	3991.5	3917.7	3913.8
35°	4306.3	4331.4	4428.9	4580.3	4679.1	4730.5	4634.4	4422.3	4182.5	4095.6	4083.7
37.5°	4655.4	4676.5	4789.8	4934.7	5054.6	5052.0	4921.5	4687.1	4419.6	4322.2	4314.2
40°	5012.4	5034.8	5163.9	5297.0	5416.9	5406.3	5248.2	4986.1	4701.5	4592.2	4613.3
42.5°	5322.0	5347.0	5493.3	5683.0	5791.0	5788.3	5605.2	5310.1	5013.8	4916.3	4934.7
45°	5603.9	5626.3	5796.2	6013.6	6171.7	6191.4	5991.2	5679.0	5374.7	5249.6	5254.8
47.5°	5802.8	5845.0	6022.8	6271.8	6486.5	6556.3	6360.1	6054.4	5704.0	5573.6	5581.5
50°	5954.3	5980.7	6174.3	6457.5	6728.9	6873.8	6715.7	6402.2	6033.4	5895.0	5913.5
52.5°	5972.8	6004.4	6215.2	6541.9	6889.6	7109.6	7031.9	6742.1	6369.3	6227.0	6266.5
55°	5822.6	5841.0	6092.6	6489.2	6952.9	7284.8	7304.6	7058.2	6689.4	6581.4	6607.7
57.5°	5394.5	5441.9	5760.7	6242.8	6865.9	7378.4	7508.8	7345.4	7013.5	6906.8	6948.9
60°	4692.3	4739.7	5059.9	5671.1	6537.9	7334.9	7677.4	7599.7	7307.2	7221.6	7244.0
62.5°	3676.7	3672.7	4069.2	4818.8	5885.8	7121.5	7802.5	7844.7	7597.0	7489.0	7523.3
65°	2383.0	2394.9	2778.2	3585.8	4901.8	6578.7	7830.2	8156.9	7881.6	7718.2	7743.3
66°	1916.7	1952.3	2277.7	3022.0	4399.9	6223.1	7747.2	8249.1	7968.5	7770.9	7782.8
67.5°	1414.8	1408.2	1675.6	2250.0	3513.3	5547.3	7487.7	8307.1	8067.3	7818.3	7823.6
70°	807.5	806.2	901.1	1235.7	2065.6	3905.9	6311.3	8029.1	8267.6	7989.6	7975.1
72.5°	590.2	586.2	599.4	682.4	1007.8	1972.0	4353.8	7017.4	8164.8	7961.9	7921.1
75°	495.3	492.7	490.0	500.6	565.1	893.1	2310.6	5048.0	7084.6	7473.2	7431.0
77.5°	404.4	404.4	405.7	403.1	405.7	470.3	957.7	2705.8	4314.2	4816.2	4933.4
80°	316.2	314.8	337.2	328.0	306.9	301.7	424.2	870.8	1431.9	1424.0	1175.1
82.5°	233.2	217.4	256.9	250.3	226.6	192.3	247.7	371.5	478.2	310.9	230.5
85°	147.5	146.2	181.8	166.0	138.3	90.9	118.6	159.4	197.6	119.9	97.5
87.5°	26.3	25.0	58.0	42.2	42.2	26.3	32.9	43.5	64.5	44.8	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)